

# LESSO



**Guangdong Lesso Energy Storage Technology Co., Ltd**

Daba Industrial Area, Longjiang Town, Foshan City, Guangdong Province, China

LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.

 [www.lessosolar.com](http://www.lessosolar.com)  [energy@lessosolar.com](mailto:energy@lessosolar.com)     LESSO Solar

A LESSO Solar Publication, September 2026.

## Energy Storage Product Manual

Solar Inverter | Battery | EV Charger

# A Bright and Exciting Journey

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD 4.38 billion from its global operations.

Guangdong Lesso Energy Storage Technology Co., Ltd. is a comprehensive energy storage technology integrator that specializes in R&D, production, sales, and after-sales services.

Our comprehensive product line ranges from residential energy storage, portable energy storage, industrial and commercial energy storage, inverters and EV charging equipment to other energy storage products. We are committed to providing safe, efficient, and comprehensive energy storage solutions.



**USD4.38 bil**  
Annual Sales Revenue



**40 years**  
Production Experience



**3.5GWh+**  
Production Capacity



## Product Certification



CE



3C



TUV NORD



RETIE



UN38.3



MSDS

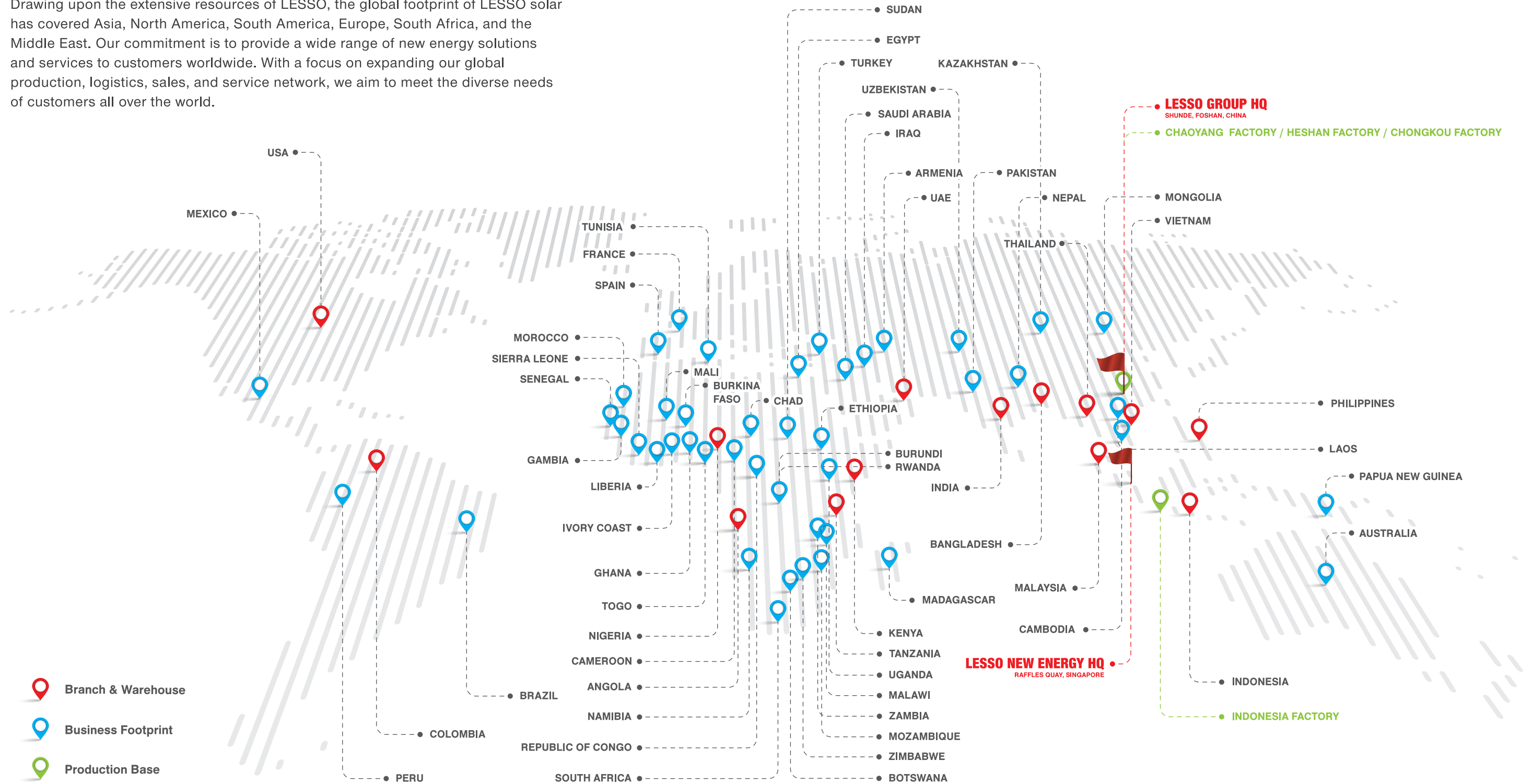


RoHS

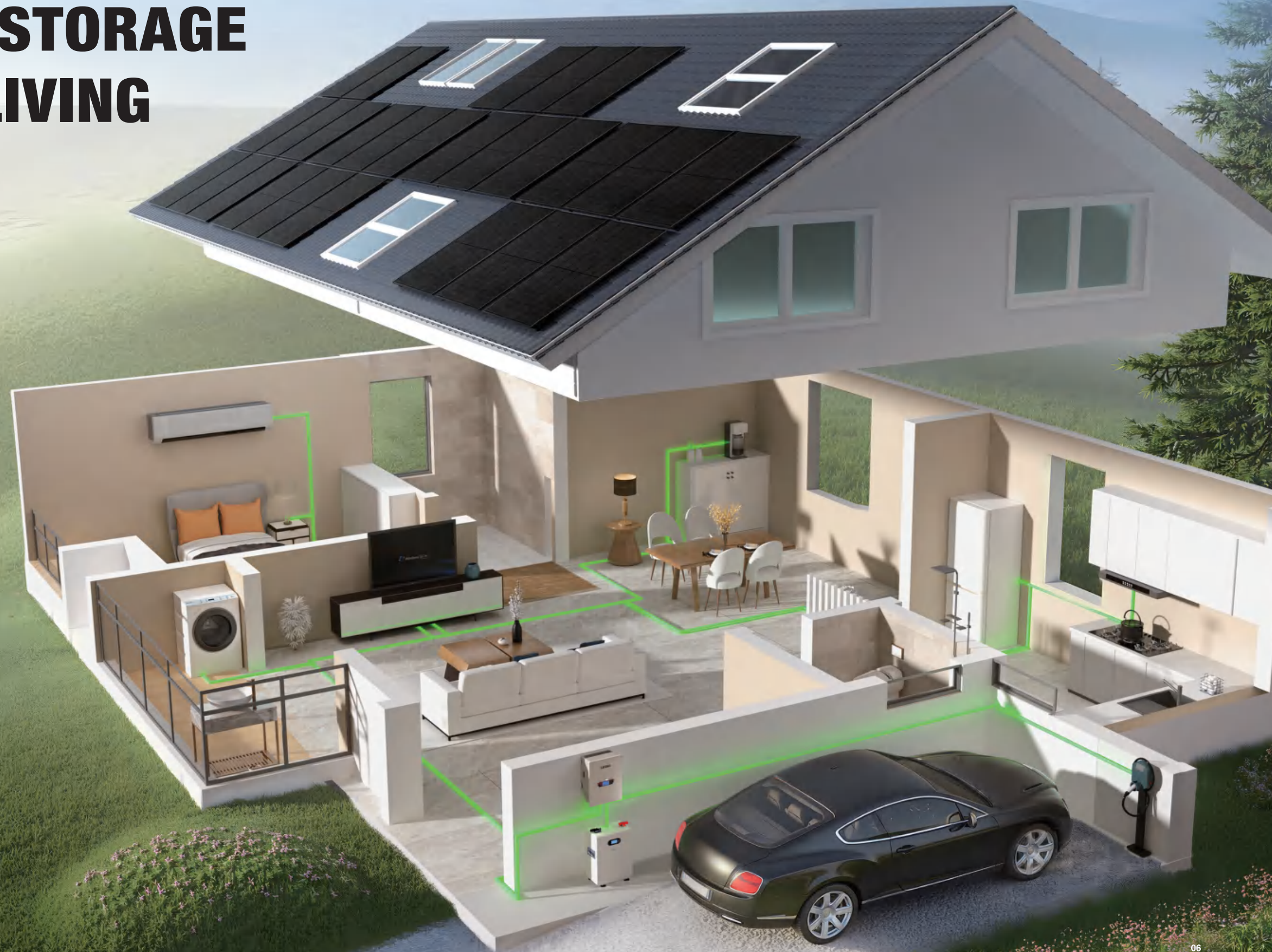


## LESSO Solar Global Footprint

Drawing upon the extensive resources of LESSO, the global footprint of LESSO solar has covered Asia, North America, South America, Europe, South Africa, and the Middle East. Our commitment is to provide a wide range of new energy solutions and services to customers worldwide. With a focus on expanding our global production, logistics, sales, and service network, we aim to meet the diverse needs of customers all over the world.



# INTELLIGENT STORAGE FOR SMART LIVING



# Inverter series

Safe and Reliable, User-friendly and Economical





Off-grid Inverter with MPPT

# LES-402A2AF/622A4BF-TF

4kW/6.2kW | Single phase | 1 MPPT



### Intelligent Charging, Safe & Reliable

Adaptive charging recognition and built-in battery activation enable safe, controllable charging



### Intelligent Interconnection, Real-time Control

Supports remote monitoring via APP and web terminal, enabling visualized energy status and intelligent dispatch



### Parallel Expansion, Flexible Capacity Expansion

Enables six-unit parallel connection with extensive power coverage for residential energy applications



### Dual Output, Worry-free Power Supply

Enables load zoning management, enhancing power stability and energy utilization efficiency



### Seamless Switching, Uninterrupted Power

Millisecond mode switching secures continuous power supply to critical loads during grid faults



### Battery Compatible, Wide Adaptation

Fully compatible design suits mainstream lead-acid and LiFePO4 energy storage batteries

LESSO

## Off-grid Inverter with MPPT

| Model                                        | LES-402A2AF-TF                                          | LES-622A4BF-TF |
|----------------------------------------------|---------------------------------------------------------|----------------|
| Rated power                                  | 4kW                                                     | 6.2kW          |
| Parallel connections                         | /                                                       | 1~6 units      |
| AC Input Data                                |                                                         |                |
| Input format                                 | Single-phase: L+N+PE                                    |                |
| Input rated voltage                          | 220/230/240Vac                                          |                |
| Input voltage range                          | 90~280VAC±3V (APL Mode), 170~280VAC±3V (UPS Mode)       |                |
| Input frequency range                        | 50Hz/60Hz (Adaptive)                                    |                |
| Output                                       |                                                         |                |
| Rated power                                  | 4kW                                                     | 6.2kW          |
| Peak power                                   | 8000VA                                                  | 12400VA        |
| Output voltage                               | 220/230/240Vac±5%                                       |                |
| Output frequency                             | 50Hz/60Hz±0.1%                                          |                |
| Output waveform                              | Pure Sine Wave                                          |                |
| Switching time                               | ≤20ms                                                   |                |
| Rated output current                         | 17.4A                                                   | 26.9A          |
| Overload capacity                            | Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load     |                |
| PV Charging And AC Charging                  |                                                         |                |
| Charging method                              | MPPT* 1                                                 |                |
| Maximum input power                          | 6500W                                                   | 8500W          |
| Maximum PV input voltage                     | 500Vdc                                                  |                |
| MPPT voltage range                           | 60-500Vdc                                               |                |
| Starting voltage                             | 90Vdc                                                   |                |
| Maximum PV input current                     | 27A                                                     |                |
| Maximum PV charging current                  | 120A                                                    |                |
| Maximum AC charging current                  | 100A                                                    |                |
| Maximum charging current                     | 120A                                                    |                |
| Battery                                      |                                                         |                |
| Rated voltage                                | 24Vdc                                                   | 48Vdc          |
| Constant voltage charging voltage (settable) | 28.2Vdc                                                 | 56.4Vdc        |
| Constant voltage charging voltage (settable) | 27Vdc                                                   | 54Vdc          |
| Other Parameters                             |                                                         |                |
| Display                                      | LCD                                                     |                |
| Communication                                | RS232/RS485/Dry Contact (Optional: WIFI data collector) |                |
| Operating temperature range                  | -10~+50℃                                                |                |
| Humidity range                               | 20~95% (No-condensation)                                |                |
| Altitude                                     | ≤1000m, >1000m derated                                  |                |
| Cooling method                               | Built-in fan                                            |                |
| Net weight                                   | 9.16kg                                                  | 10.33kg        |
| Machine size (H×W×D)                         | 495×312×125mm                                           |                |
| Gross weight                                 | 10.51kg                                                 | 11.57kg        |
| Package size (L×W×H)                         | 565×390×200mm                                           | 565×397×200mm  |
| IP rating                                    | IP21                                                    |                |

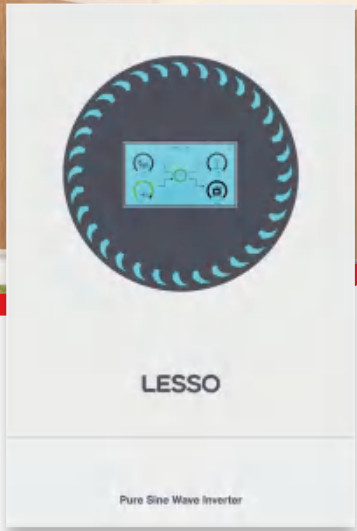
Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-622A4B2F2-TF

6.2kW | Single phase | 1 MPPT



Intelligent Charging, Safe & Reliable

Adaptive charging recognition and built-in battery activation enable safe, controllable charging



Intelligent Interconnection, Real-time Control

Supports remote monitoring via APP and web terminal, enabling visualized energy status and intelligent dispatch



Parallel Expansion, Flexible Capacity Expansion

Enables six-unit parallel connection with extensive power coverage for residential energy applications



Dual Output, Worry-free Power Supply

Enables load zoning management, enhancing power stability and energy utilization efficiency



Load Expansion, Unlimited Power

Expands loads via dedicated wiring to break power limits and attain unrestricted load capacity



Anti-reflux Compliance, Economical Power Use

Equipped with CT intelligent anti-reflux monitoring to precisely regulate current flow, ensuring full compliance and power savings

| Model                            | LEC-622A4B2F2-TF                                        |
|----------------------------------|---------------------------------------------------------|
| Battery Input Data               |                                                         |
| Battery type                     | Lithium or lead acid battery                            |
| Rated voltage                    | 48V                                                     |
| Maximum charge/Discharge current | 120A/143A                                               |
| PV Input Data                    |                                                         |
| Maximum DC input power           | 8500W                                                   |
| Maximum DC input voltage         | 500Vdc                                                  |
| MPPT voltage range               | 60~500Vdc                                               |
| Starting voltage                 | 90Vdc                                                   |
| Maximum input current            | 27A                                                     |
| MPPT number                      | 1                                                       |
| AC Output Parameters (On-Grid)   |                                                         |
| Rated output apparent power      | 6200VA                                                  |
| Rated output voltage             | 220/230/240Vac, L+N+PE                                  |
| Rated output frequency           | 50Hz/60Hz                                               |
| Max output current               | 26.9A                                                   |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)                           |
| AC Output Parameters (Off-Grid)  |                                                         |
| Rated output apparent power      | 6200W                                                   |
| P-P output power                 | >200%, 400ms                                            |
| Rated output voltage             | 220/230/240Vac, L+N+PE                                  |
| Rated output frequency           | 50Hz/60Hz                                               |
| Rated output current             | 26.9A                                                   |
| Efficiency                       |                                                         |
| Maximum efficiency (PV)          | 98%                                                     |
| Maximum efficiency (BAT)         | 94%                                                     |
| Other Parameters                 |                                                         |
| Display                          | LCD                                                     |
| Communication                    | RS232/RS485/Dry Contact (Optional: WIFI data collector) |
| Parallel connections             | 1~6 units                                               |
| Anti-Backfeed function           | Yes                                                     |
| Operating temperature range      | -10~+50°C                                               |
| Humidity range                   | 20~95% (No-condensation)                                |
| Altitude                         | ≤1000m, >1000m derated                                  |
| Cooling method                   | Intelligent forced air cooling                          |
| Net weight                       | 11.60kg                                                 |
| Machine size (H×W×D)             | 483×313×143mm                                           |
| Gross weight                     | 13.06kg                                                 |
| Package size (L×W×H)             | 560×382×215mm                                           |
| IP rating                        | IP21                                                    |
| Topology                         | HF isolation (Battery side)                             |

Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-802A3BD-AT

8kW | Single phase | 2 MPPTs



Parallel Expansion, Flexible Capacity Expansion

Enables six-unit parallel connection with extensive power coverage for residential energy applications



Fast Charge & Discharge, Powerful Load Capacity

Delivers 190A rapid charge-discharge capacity to instantly satisfy high-load power demands



Battery Compatible, Wide Adaptation

Fully compatible design suits mainstream lead-acid and LiFePO4 energy storage batteries



Smart Charging, Energy & Cost Saving

Adopt six-stage intelligent charging management and support customized energy scheduling plans



IP66 Protection, Outdoor Reliable

Features IP66 dustproof and waterproof grade, adaptable to various complex installation scenarios



Dual Control Management, Efficient Operation

Supports remote monitoring and local touch screen operation

| Model                            | LEC-802A3BD-AT                 |
|----------------------------------|--------------------------------|
| Battery Input Data               |                                |
| Battery type                     | Lithium or lead acid battery   |
| Rated voltage                    | 48V                            |
| Maximum charge/Discharge current | 190A/190A                      |
| PV Input Data                    |                                |
| Maximum DC input power           | 16000W                         |
| Maximum DC input voltage         | 500V                           |
| MPPT voltage range               | 150~450V                       |
| Starting voltage                 | 125V                           |
| Maximum input current            | 30A/18A                        |
| MPPT number                      | 2                              |
| AC Output Parameters (On-Grid)   |                                |
| Rated output apparent power      | 8800VA                         |
| Rated output voltage             | 220/230Vac L+N+PE              |
| Rated output frequency           | 50Hz/60Hz                      |
| Max output current               | 40A                            |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)  |
| AC Output Parameters (Off-Grid)  |                                |
| Rated output apparent power      | 8000W                          |
| P-P output power                 | >200%, 15sec                   |
| Rated output voltage             | 220/230Vac L+N+PE              |
| Rated output frequency           | 50Hz/60Hz                      |
| Rated output current             | 40A                            |
| Efficiency                       |                                |
| Maximum efficiency (PV)          | 98%                            |
| Maximum efficiency (BAT)         | 94.5%                          |
| Other Parameters                 |                                |
| Display                          | LCD                            |
| Communication                    | USB/RS485/CAN/Dry Contact      |
| Parallel connections             | 1~6 units                      |
| Anti-Backfeed function           | Yes                            |
| Operating temperature range      | -40~60°C (>45°C derated)       |
| Humidity range                   | 0~95%                          |
| Altitude                         | ≤4000m, (>2000m derated)       |
| Cooling method                   | Intelligent forced air cooling |
| Net weight                       | 22.2kg                         |
| Machine size (H×W×D)             | 554×427×198mm                  |
| Gross weight                     | 26kg                           |
| Package size (L×W×H)             | 615×485×285mm                  |
| IP rating                        | IP66                           |
| Topology                         | HF isolation (Battery side)    |

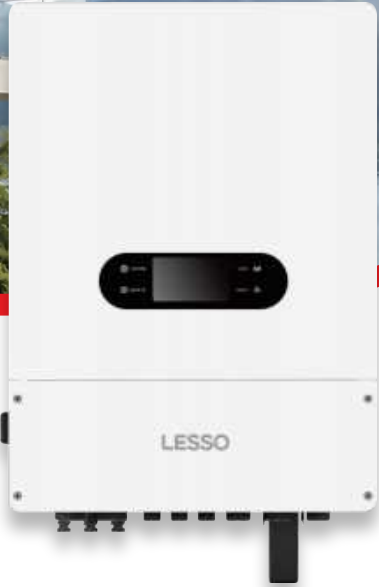
Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-123B3BD-AT

12kW | Three phase | 2 MPPTs



Parallel Expansion, Flexible Capacity Expansion

Enables six-unit parallel connection with extensive power coverage for residential energy applications



Fast Charge & Discharge, Powerful Load Capacity

Delivers 250A rapid charge-discharge capacity to instantly satisfy high-load power demands



Battery Compatible, Wide Adaptation

Fully compatible design suits mainstream lead-acid and LiFePO4 energy storage batteries



Smart Charging, Energy & Cost Saving

Adopt six-stage intelligent charging management and support customized energy scheduling plans



IP66 Protection, Outdoor Reliable

Features IP66 dustproof and waterproof grade, adaptable to various complex installation scenarios



Dual Control Management, Efficient Operation

Supports remote monitoring and local touch screen operatio

| Model                            | LEC-123B3BD-AT                 |
|----------------------------------|--------------------------------|
| Battery Input Data               |                                |
| Battery type                     | Lithium or lead acid battery   |
| Rated voltage                    | 48V                            |
| Maximum charge/Discharge current | 250A/250A                      |
| PV Input Data                    |                                |
| Maximum DC input power           | 24kW                           |
| Maximum DC input voltage         | 1000V                          |
| MPPT voltage range               | 200~800V                       |
| Starting voltage                 | 150V                           |
| Maximum input current            | 36A/18A                        |
| MPPT number                      | 2                              |
| AC Output Parameters (On-Grid)   |                                |
| Rated output apparent power      | 13200VA                        |
| Rated output voltage             | 230/400Vac 3W+N+PE             |
| Rated output frequency           | 50Hz/60Hz                      |
| Max output current               | 20A                            |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)  |
| AC Output Parameters (Off-Grid)  |                                |
| Rated output apparent power      | 12000W                         |
| P-P output power                 | >200%, 15sec                   |
| Rated output voltage             | 230/400Vac 3W+N+PE             |
| Rated output frequency           | 50Hz/60Hz                      |
| Rated output current             | 20A                            |
| Efficiency                       |                                |
| Maximum efficiency (PV)          | 98%                            |
| Maximum efficiency (BAT)         | 94.5%                          |
| Other Parameters                 |                                |
| Display                          | LCD                            |
| Communication                    | USB/RS485/CAN/Dry Contact      |
| Parallel connections             | 1~6 units                      |
| Anti-Backfeed function           | Yes                            |
| Operating temperature range      | -25~60°C (>45°C derated)       |
| Humidity range                   | 0~95%                          |
| Altitude                         | ≤4000m, (>2000m derated)       |
| Cooling method                   | Intelligent forced air cooling |
| Net weight                       | 37.3kg                         |
| Machine size (H×W×D)             | 683×475×256mm                  |
| Gross weight                     | 43.2kg                         |
| Package size (L×W×H)             | 760×540×365mm                  |
| IP rating                        | IP66                           |
| Topology                         | HF isolation (Battery side)    |

Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-802/103A3BF

8/10kW | Single phase | 2 MPPTs



**Parallel Expansion, Flexible Capacity Expansion**  
Enables six-unit parallel connection with extensive power coverage for residential energy applications



**Fast Charge & Discharge, Powerful Load Capacity**  
Delivers 200A rapid charge-discharge capacity to instantly satisfy high-load power demands



**Seamless Switching, Energy Conservation**  
Auto enable energy-saving mode under no load to reduce unnecessary power loss



**High-efficiency MPPT, Precise Regulation**  
Dual independent MPPT achieves 99.9% tracking efficiency for flexible array power allocation



**Smart Charging, Energy & Cost Saving**  
Adopt three-stage intelligent charging management and support customized energy scheduling plans



**Comprehensive Protection, Multi-port Interconnection**  
Built-in overvoltage, overload and overheat protection, fitted with RS485/CAN communication ports

LESSO

Hybrid Inverter

| Model                            | LEC-802A3BF                    | LEC-103A3BF |
|----------------------------------|--------------------------------|-------------|
| Battery Input Data               |                                |             |
| Battery type                     | Lithium or lead acid battery   |             |
| Rated voltage                    | 48V                            |             |
| Maximum charge/Discharge current | 190A/190A                      | 200A/200A   |
| PV Input Data                    |                                |             |
| Maximum DC input power           | 15200W                         | 16000W      |
| Maximum DC input voltage         | 500V                           |             |
| MPPT voltage range               | 125~435V                       |             |
| Starting voltage                 | 150V                           |             |
| Maximum input current            | 22A/22A                        | 23A/23A     |
| MPPT number                      | 2                              |             |
| AC Output Parameters (On-Grid)   |                                |             |
| Rated output apparent power      | 8000VA                         | 10000VA     |
| Rated output voltage             | 200/208/220/230/240Vac, L+N+PE |             |
| Rated output frequency           | 50Hz/60Hz                      |             |
| Max output current               | 40A                            | 45A         |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)  |             |
| AC Output Parameters (Off-Grid)  |                                |             |
| Rated output apparent power      | 8000W                          | 10000W      |
| P-P output power                 | >110%, 1sec                    |             |
| Rated output voltage             | 200/208/220/230/240Vac, L+N+PE |             |
| Rated output frequency           | 50Hz/60Hz                      |             |
| Rated output current             | 40A                            | 45A         |
| Efficiency                       |                                |             |
| Maximum efficiency (PV)          | 92%                            |             |
| Maximum efficiency (BAT)         | 94.5%                          |             |
| Other Parameters                 |                                |             |
| Display                          | LCD                            |             |
| Communication                    | USB/RS485/CAN/Dry Contact      |             |
| Parallel connections             | 1~6 units                      |             |
| Anti-Backfeed function           | Yes                            |             |
| Operating temperature range      | -10~55℃ (>45℃ derated)         |             |
| Humidity range                   | 20~95% (No-condensation)       |             |
| Altitude                         | ≤2000m                         |             |
| Cooling method                   | Intelligent forced air cooling |             |
| Net weight                       | 28kg                           |             |
| Machine size (H×W×D)             | 620×445×130mm                  |             |
| Gross weight                     | 30.8kg                         |             |
| Package size (L×W×H)             | 785×565×246mm                  |             |
| IP rating                        | IP20                           |             |
| Topology                         | HF isolation (Battery side)    |             |

Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-402/502/652E5B1F

4kW/5kW/6.5kW | Split phase | 1 MPPT



**Parallel Expansion, Flexible Capacity Expansion**  
Enables six-unit parallel connection with extensive power coverage for residential energy applications



**Dual Voltage Output, Wide Compatibility**  
Supports 120/240V dual voltage output, compatible with power standards across diverse regions



**Seamless Switching, Energy Conservation**  
Auto enable energy-saving mode under no load to reduce unnecessary power loss



**High-efficiency MPPT, Precise Regulation**  
The MPPT achieves 99.9% tracking efficiency for flexible array power allocation



**Smart Charging, Energy & Cost Saving**  
Adopt three-stage intelligent charging management and support customized energy scheduling plans



**Comprehensive Protection, Multi-port Interconnection**  
Built-in overvoltage, overload and overheat protection, fitted with RS485/CAN communication ports

LESSO

Hybrid Inverter

| Model                            | LEC-402E5B1F                                  |           | LEC-502E5B1F |           | LEC-652E5B1F |  |
|----------------------------------|-----------------------------------------------|-----------|--------------|-----------|--------------|--|
| Battery Input Data               |                                               |           |              |           |              |  |
| Battery type                     | Lithium or lead acid battery                  |           |              |           |              |  |
| Rated voltage                    | 48V                                           |           |              |           |              |  |
| Maximum charge/Discharge current | 100A/100A                                     | 120A/120A |              | 125A/125A |              |  |
| PV Input Data                    |                                               |           |              |           |              |  |
| Maximum DC input power           | 6000W                                         | 10000W    |              | 12000W    |              |  |
| Maximum DC input voltage         | 500V                                          |           |              |           |              |  |
| MPPT voltage range               | 125~435V                                      |           |              |           |              |  |
| Starting voltage                 | 150V                                          |           |              |           |              |  |
| Maximum input current            | 18A/18A                                       | 20A/20A   |              | 20A/20A   |              |  |
| MPPT number                      | 1                                             |           |              |           |              |  |
| AC Output Parameters (On-Grid)   |                                               |           |              |           |              |  |
| Rated output apparent power      | 4000VA                                        | 5000VA    |              | 6500VA    |              |  |
| Rated output voltage             | 120/240VAC, Single-phase/Split-phase, L1/N/L2 |           |              |           |              |  |
| Rated output frequency           | 50Hz/60Hz                                     |           |              |           |              |  |
| Max output current               | 26.2A                                         | 32.7A     |              | 42.6A     |              |  |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)                 |           |              |           |              |  |
| AC Output Parameters (Off-Grid)  |                                               |           |              |           |              |  |
| Rated output apparent power      | 4000W                                         | 5000W     |              | 6500W     |              |  |
| P-P output power                 | >110%, 1sec                                   |           |              |           |              |  |
| Rated output voltage             | 120/240VAC, Single-phase/Split-phase, L1/N/L2 |           |              |           |              |  |
| Rated output frequency           | 50Hz/60Hz                                     |           |              |           |              |  |
| Rated output current             | 26.2A                                         | 32.7A     |              | 42.6A     |              |  |
| Efficiency                       |                                               |           |              |           |              |  |
| Maximum efficiency (PV)          | 99%                                           |           |              |           |              |  |
| Maximum efficiency (BAT)         | 94.5%                                         |           |              |           |              |  |
| Other Parameters                 |                                               |           |              |           |              |  |
| Display                          | LCD                                           |           |              |           |              |  |
| Communication                    | USB/RS485/CAN/Dry Contact                     |           |              |           |              |  |
| Parallel connections             | 1~6 units                                     |           |              |           |              |  |
| Anti-Backfeed function           | Yes                                           |           |              |           |              |  |
| Operating temperature range      | -10~55°C (>45°C derated)                      |           |              |           |              |  |
| Humidity range                   | 20~95% (No-condensation)                      |           |              |           |              |  |
| Altitude                         | ≤2000m                                        |           |              |           |              |  |
| Cooling method                   | Intelligent forced air cooling                |           |              |           |              |  |
| Net weight                       | 25kg                                          |           |              |           |              |  |
| Machine size (H×W×D)             | 496×356×130mm                                 |           |              |           |              |  |
| Gross weight                     | 28kg                                          |           |              |           |              |  |
| Package size (L×W×H)             | 628×452×246mm                                 |           |              |           |              |  |
| IP rating                        | IP20                                          |           |              |           |              |  |
| Topology                         | HF isolation (Battery side)                   |           |              |           |              |  |

Remarks: Specifications are subject to change without notice.



Hybrid Inverter

LEC-802/103E5B1F

8/10kW | Split phase | 2 MPPTs



**Parallel Expansion, Flexible Capacity Expansion**  
Enables six-unit parallel connection with extensive power coverage for residential energy applications



**Dual Voltage Output, Wide Compatibility**  
Supports 120/240V dual voltage output, compatible with power standards across diverse regions



**Seamless Switching, Energy Conservation**  
Auto enable energy-saving mode under no load to reduce unnecessary power loss



**High-efficiency MPPT, Precise Regulation**  
Dual independent MPPT achieves 99.9% tracking efficiency for flexible array power allocation



**Smart Charging, Energy & Cost Saving**  
Adopt three-stage intelligent charging management and support customized energy scheduling plans



**Comprehensive Protection, Multi-port Interconnection**  
Built-in overvoltage, overload and overheat protection, fitted with RS485/CAN communication ports

| Model                            | LEC-802E5B1F                   | LEC-103E5B1F |
|----------------------------------|--------------------------------|--------------|
| Battery Input Data               |                                |              |
| Battery type                     | Lithium or lead acid battery   |              |
| Rated voltage                    | 48V                            |              |
| Maximum charge/Discharge current | 190A/190A                      | 200A/200A    |
| PV Input Data                    |                                |              |
| Maximum DC input power           | 15200W                         | 16000W       |
| Maximum DC input voltage         | 500V                           |              |
| MPPT voltage range               | 125~435V                       |              |
| Starting voltage                 | 150V                           |              |
| Maximum input current            | 22A/22A                        | 23A/23A      |
| MPPT number                      | 2                              |              |
| AC Output Parameters (On-Grid)   |                                |              |
| Rated output apparent power      | 8000VA                         | 10000VA      |
| Rated output voltage             | 200/208/220/230/240Vac, L+N+PE |              |
| Rated output frequency           | 50Hz/60Hz                      |              |
| Max output current               | 40A                            | 45A          |
| Output power factor              | 1 (-0.8 leading~+0.8 lagging)  |              |
| AC Output Parameters (Off-Grid)  |                                |              |
| Rated output apparent power      | 8000W                          | 10000W       |
| P-P output power                 | >110%, 1sec                    |              |
| Rated output voltage             | 200/208/220/230/240Vac, L+N+PE |              |
| Rated output frequency           | 50Hz/60Hz                      |              |
| Rated output current             | 40A                            | 45A          |
| Efficiency                       |                                |              |
| Maximum efficiency (PV)          | 99%                            |              |
| Maximum efficiency (BAT)         | 94.5%                          |              |
| Other Parameters                 |                                |              |
| Display                          | LCD                            |              |
| Communication                    | USB/RS485/CAN/Dry Contact      |              |
| Parallel connections             | 1~6 units                      |              |
| Anti-Backfeed function           | Yes                            |              |
| Operating temperature range      | -10~55℃ (>45℃ derated)         |              |
| Humidity range                   | 20~95% (No-condensation)       |              |
| Altitude                         | ≤2000m                         |              |
| Cooling method                   | Intelligent forced air cooling |              |
| Net weight                       | 28.2kg                         |              |
| Machine size (H×W×D)             | 620×445×130mm                  |              |
| Gross weight                     | 31kg                           |              |
| Package size (L×W×H)             | 785×565×246mm                  |              |
| IP rating                        | IP20                           |              |
| Topology                         | HF isolation (Battery side)    |              |

Remarks: Specifications are subject to change without notice.

# Batteries series

Light Up Every Household





# LYB-3K8BL7-TC

Battery Module 3.84kWh



### Long Lifespan, Cost Efficient

Boasts longer cycle life than lead-acid batteries, cutting replacement times and full-life costs



### High Power Output, Superior Load Performance

Delivers twice the power output of equivalent lead-acid cells, maintains steady capacity during high-rate discharge



### Modular Design, Flexible Expansion

Supports series-parallel combination, enabling flexible system capacity configuration per power demand



### Lightweight Design, Easy Installation

Merely 40% weight of same-spec lead-acid batteries, easy to carry and install, direct replacement with no extra renovation



### Multiple Protection, Safe & Reliable

Built-in intelligent BMS realizes full-range automatic protection, ensuring stable and secure equipment operation



### Wide Temp Adaptation, Stable Operation

Stably operates at -20°C~60°C, ensures steady power supply in extreme climates

LESSO

## Battery Module

| Model                                | LYB-3K8BL7-TC                   |
|--------------------------------------|---------------------------------|
| Key Parameters                       |                                 |
| Cell chemistry                       | LiFePO4                         |
| Rated energy                         | 3.84kWh                         |
| Nominal capacity                     | 150Ah                           |
| Nominal voltage                      | 25.6V                           |
| Charge Cut-Off voltage               | 29.2V                           |
| Discharge Cut-Off voltage            | 22.4V                           |
| Recommended charge/Discharge current | 75A/75A                         |
| Max. Continuous charge current       | 150A                            |
| Max. Continuous discharge current    | 150A                            |
| Cycle life                           | ≥3000 Cycles (1C@25°C, 100%DOD) |
| Recommended depth of discharge (DOD) | 80%                             |
| Environmental Parameters             |                                 |
| Charge operating temperature         | 0~45°C                          |
| Discharge operating temperature      | -20~60°C                        |
| Storage temperature                  | -5~35°C                         |
| Humidity range                       | 60±25%RH                        |
| Altitude                             | ≤3000m                          |
| IP rating                            | IP65                            |
| Mechanical Parameters                |                                 |
| Net weight                           | 29kg                            |
| Machine size (H×W×D)                 | 522×244×223mm                   |
| Gross weight                         | 31kg                            |
| Package size (L×W×H)                 | 575×290×283mm                   |
| Other Parameters                     |                                 |
| Communication                        | /                               |
| Parallel connections                 | 4 Units                         |
| Series connections                   | 2 Units                         |
| Installation method                  | Ground placement                |
| Cooling method                       | Natural convection              |
| Standards and certifications         | UN38.3/MSDS                     |

\* 1: Current is affected by temperature and SOC.  
\* 2: During long-term idle storage, charge the battery once every 3 months.  
\* 3: Please note, product specifications are subject to change without notice.



# LSM025.6V200AH-B01

## Battery Module 5.12kWh



### Long Lifespan, Cost Efficient

Boasts longer cycle life than lead-acid batteries, cutting replacement times and full-life costs



### High Power Output, Superior Load Performance

Delivers twice the power output of equivalent lead-acid cells, maintains steady capacity during high-rate discharge



### Modular Design, Flexible Expansion

Supports series-parallel combination, enabling flexible system capacity configuration per power demand



### Lightweight Design, Easy Installation

Merely 40% weight of same-spec lead-acid batteries, easy to carry and install, direct replacement with no extra renovation



### Multiple Protection, Safe & Reliable

Built-in intelligent BMS realizes full-range automatic protection, ensuring stable and secure equipment operation



### Wide Temp Adaptation, Stable Operation

Stably operates at -20°C~60°C, ensures steady power supply in extreme climates

LESSO

## Battery Module

| Model                                | LSM025.6V200AH-B01               |
|--------------------------------------|----------------------------------|
| Key Parameters                       |                                  |
| Cell chemistry                       | LiFePO4                          |
| Rated energy                         | 5.12kWh                          |
| Nominal capacity                     | 200Ah                            |
| Nominal voltage                      | 25.6V                            |
| Charge Cut-Off voltage               | 29.6V                            |
| Discharge Cut-Off voltage            | 21.6V                            |
| Recommended charge/Discharge current | 100A/100A                        |
| Max. Continuous charge current       | 100A                             |
| Max. Continuous discharge current    | 100A                             |
| Cycle life                           | ≥6000 Cycles (0.5C@25°C, 80%DOD) |
| Recommended depth of discharge (DOD) | 80%                              |
| Environmental Parameters             |                                  |
| Charge operating temperature         | 0~55°C                           |
| Discharge operating temperature      | -20~55°C                         |
| Storage temperature                  | 0°C~35°C                         |
| Humidity range                       | 60±25%RH                         |
| Altitude                             | ≤3000m                           |
| IP rating                            | IP20                             |
| Mechanical Parameters                |                                  |
| Net weight                           | 36kg                             |
| Machine size (H×W×D)                 | 522×242×220mm                    |
| Gross weight                         | 37.5kg                           |
| Package size (L×W×H)                 | 577×293×276mm                    |
| Other Parameters                     |                                  |
| Communication                        | RS485                            |
| Parallel connections                 | 4 Units                          |
| Series connections                   | 4 Units                          |
| Installation method                  | Ground placement                 |
| Cooling method                       | Natural convection               |
| Standards and certifications         | UN38.3/MSDS/RETIE                |

\* 1: Current is affected by temperature and SOC.

\* 2: During long-term idle storage, charge the battery once every 3 months.

\* 3: Please note, product specifications are subject to change without notice.



# LHD-51F250L1A-GS

**Battery Series**    12.8kWh | Low voltage battery

- 

**Safe Core Cells, Flame Retardant**  
Adopting high-safety LFP cells with built-in flame-retardant features to deliver worry-free application
- 

**Floor Deployment, Flexible Arrangement**  
Adopting floor-standing configuration, free from spatial constraints and compatible with diversified site conditions
- 

**Flexible Scaling, Multi-unit Parallel**  
Supporting expandable multi-unit configuration, the system enables synchronous parallel connection of up to 15 units
- 

**Ultra-long Lifespan, Cost Optimization**  
Designed with 10-year service life and superior cycle performance, greatly reduce overall operating costs
- 

**Wide Compatibility, Seamless Integration**  
Compatible with mainstream brand inverters, seamlessly integrated into existing household energy systems

**Multi-protection, Full Safeguard**  
Built-in diverse safety mechanisms, secure equipment operation and reduce usage risks



| Model                                | LHD-51F250L1A-GS                 |
|--------------------------------------|----------------------------------|
| Key Parameters                       |                                  |
| Cell chemistry                       | LiFePO4                          |
| Rated energy                         | 12.8kWh                          |
| Nominal capacity                     | 250Ah                            |
| Nominal voltage                      | 51.2V                            |
| Charge Cut-Off voltage               | 58.4V                            |
| Discharge Cut-Off voltage            | 43.2V                            |
| Recommended charge/Discharge current | 125A/ 125A                       |
| Max. Continuous charge current       | 250A                             |
| Max. Continuous discharge current    | 250A                             |
| Cycle life                           | ≥3000 Cycles (0.5C@25°C, 80%DOD) |
| Recommended depth of discharge (DOD) | 80%                              |
| Environmental Parameters             |                                  |
| Charge operating temperature         | 0~+50°C                          |
| Discharge operating temperature      | -20~+60°C                        |
| Storage temperature                  | -20~+45°C                        |
| Humidity range                       | 65±20%RH                         |
| Altitude                             | ≤2000m                           |
| IP rating                            | IP20                             |
| Mechanical Parameters                |                                  |
| Net weight                           | 150kg                            |
| Machine size (H×W×D)                 | 800×480×350mm                    |
| Gross weight                         | 185kg                            |
| Package size (L×W×H)                 | 870×570×500mm                    |
| Other Parameters                     |                                  |
| Display                              | LCD                              |
| Communication                        | CAN/RS485                        |
| Parallel connections                 | 1~15 Units                       |
| Installation method                  | Floor mounted                    |
| Cooling method                       | Natural convection               |
| Standards and certifications         | UN38.3/MSDS                      |

\* 1: Current is affected by temperature and SOC.  
\* 2: During long-term idle storage, charge the battery once every 3 months.  
\* 3: Please note, product specifications are subject to change without notice.



# LHD-51F314L1C-ZT

**Battery Series**    16kWh | Low voltage battery



**Safe Core Cells, Flame Retardant**  
Adopting high-safety LFP cells with built-in flame-retardant features to deliver worry-free application



**Floor Deployment, Flexible Arrangement**  
Adopting floor-standing configuration, free from spatial constraints and compatible with diversified site conditions



**Flexible Scaling, Multi-unit Parallel**  
Supporting expandable multi-unit configuration, the system enables synchronous parallel connection of up to 63 units



**Ultra-long Lifespan, Cost Optimization**  
Designed with 10-year service life and superior cycle performance, greatly reduce overall operating costs



**Wide Compatibility, Seamless Integration**  
Compatible with mainstream brand inverters, seamlessly integrated into existing household energy systems



**Multi-protection, Full Safeguard**  
Built-in diverse safety mechanisms, secure equipment operation and reduce usage risks



LESSO

Battery Series

| Model                                | LHD-51F314L1C-ZT                 |
|--------------------------------------|----------------------------------|
| Key Parameters                       |                                  |
| Cell chemistry                       | LiFePO4                          |
| Rated energy                         | 16.076 kWh                       |
| Nominal capacity                     | 314Ah                            |
| Nominal voltage                      | 51.2V                            |
| Charge Cut-Off voltage               | 57.6V                            |
| Discharge Cut-Off voltage            | 44.8V                            |
| Recommended charge/Discharge current | 157A/157A                        |
| Max. Continuous charge current       | 200A                             |
| Max. Continuous discharge current    | 200A                             |
| Cycle life                           | ≥6000 Cycles (0.5C@25°C, 80%DOD) |
| Recommended depth of discharge (DOD) | 80%                              |
| Environmental Parameters             |                                  |
| Charge operating temperature         | 0~+50°C                          |
| Discharge operating temperature      | -20~+55°C                        |
| Storage temperature                  | -10~+35°C                        |
| Humidity range                       | 65±20%RH                         |
| Altitude                             | ≤2000m                           |
| IP rating                            | IP20                             |
| Mechanical Parameters                |                                  |
| Net weight                           | 127.5kg                          |
| Machine size (H×W×D)                 | 976×460×245mm                    |
| Gross weight                         | 153.5kg                          |
| Package size (L×W×H)                 | 1118×659×413mm                   |
| Other Parameters                     |                                  |
| Display                              | LCD                              |
| Communication                        | CAN/RS485                        |
| Parallel connections                 | 1~63 Units                       |
| Installation method                  | Floor-mounted                    |
| Cooling method                       | Natural convection               |
| Standards and certifications         | UN38.3/MSDS                      |

\* 1: Current is affected by temperature and SOC.  
\* 2: During long-term idle storage, charge the battery once every 3 months.  
\* 3: Please note, product specifications are subject to change without notice.

# EV Charger

High Power, Plug and Charge



LESSO



LSACS-E

AC EV Charger    7kW | Single phase

LESSO

AC EV Charger



LSACS-E-32/230-B01-1  
LSACS-E-32/230-B01-2



LSACS-E-32/230-B02-1  
LSACS-E-32/230-B02-2

- Card Access Authorization, Comprehensive Anti-Theft

Auto Full-Charge Cutoff , Battery Lifespan Safeguard

Authoritative Certifications, Exquisite Craftsmanship
- High-Grade Protection, Outdoor Reliability

Wide-Temperature Operation, Stable Performance

Flame-Retardant Casing, Safety Upgrade

| Model                       | LSACS-E-32/230-B01-1                   |                        | LSACS-E-32/230-B01-2 | LSACS-E-32/230-B02-1 | LSACS-E-32/230-B02-2   |
|-----------------------------|----------------------------------------|------------------------|----------------------|----------------------|------------------------|
| Product configuration       | Home edition                           |                        |                      |                      |                        |
| Product color               | Dark green                             |                        |                      |                      |                        |
| Rated power                 | 7kW                                    |                        |                      |                      |                        |
| Output current              | 32A                                    |                        |                      |                      |                        |
| Rated voltage               | 230Vac                                 |                        |                      |                      |                        |
| Input wiring                | Single-phase: L1+N+PE                  |                        |                      |                      |                        |
| Plug type                   | Type 2                                 |                        |                      |                      |                        |
| Start mode                  | Swipe card                             | Swipe card + Bluetooth |                      | Swipe card           | Swipe card + Bluetooth |
| Machine size (W×H×D)        | 214×342×116mm                          |                        |                      |                      |                        |
| IP rating                   | Charging gun head IP66/EV charger IP55 |                        |                      |                      |                        |
| Display mode                | LED lights                             |                        |                      | LCD display          |                        |
| Installation method         | Wall mounted                           |                        |                      |                      |                        |
| Flame retardant rating      | UL94-V0                                |                        |                      |                      |                        |
| Cable length                | 5m (Customizable)                      |                        |                      |                      |                        |
| Applicable standards        | IEC 62196-1:2022, IEC 61851-1-2017     |                        |                      |                      |                        |
| Operating temperature range | -25°C~+50°C                            |                        |                      |                      |                        |
| Operating humidity range    | ≤90%                                   |                        |                      |                      |                        |
| Operating altitude          | <2000m                                 |                        |                      |                      |                        |

Remarks: Specifications are subject to change without notice.

LESSO



LGE-702A1C1E1-XC

AC EV Charger    7kW | Single phase

LESSO

AC EV Charger



Residential & Commercial, Multiple Modes Available



High-Grade Protection, Outdoor Reliability



Wall & Pole Mount, Flexible Installation



Wide-Temperature Operation, Stable Performance



Authoritative Certifications, Exquisite Craftsmanship



Flame-Retardant Casing, Safety Upgrade

| Model                       | LGE-702A1C1E1-XC                                                                           |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Product configuration       | Home edition/Commercial edition                                                            |
| Product color               | Silver                                                                                     |
| Rated power                 | 7kW                                                                                        |
| Output current              | 32A                                                                                        |
| Rated voltage               | 220Vac                                                                                     |
| Input wiring                | Single-phase: L1+N+PE                                                                      |
| Plug type                   | GB/T                                                                                       |
| Start mode                  | Standard: Swipe card (Optional: Swipe card + Bluetooth/Swipe card + 4G/Commercial edition) |
| Machine size (W×H×D)        | 226×341×100mm                                                                              |
| IP rating                   | Charging gun head IP66/EV charger IP55                                                     |
| Display mode                | LED lights                                                                                 |
| Installation method         | Wall/Pole mount                                                                            |
| Flame retardant rating      | UL94-V0                                                                                    |
| Cable length                | 4m (Customizable)                                                                          |
| Applicable standards        | GB 39752-2024, GB 44263-2024                                                               |
| Operating temperature range | -25°C~+50°C                                                                                |
| Operating humidity range    | ≤90%                                                                                       |
| Operating altitude          | <2000m                                                                                     |

Remarks: Specifications are subject to change without notice.



LGE-702A1C1C1-XA

AC EV Charger    7kW | Single phase



Residential & Commercial, Multiple Modes Available



High-Grade Protection, Outdoor Reliability



Wall & Pole Mount, Flexible Installation



Wide-Temperature Operation, Stable Performance



Authoritative Certifications, Exquisite Craftsmanship



Flame-Retardant Casing, Safety Upgrade

| Model                       | LGE-702A1C1C1-XA                                                                           |
|-----------------------------|--------------------------------------------------------------------------------------------|
| Product configuration       | Home edition/Commercial edition                                                            |
| Product color               | Brilliant silver                                                                           |
| Rated power                 | 7kW                                                                                        |
| Output current              | 32A                                                                                        |
| Rated voltage               | 220Vac                                                                                     |
| Input wiring                | Single-phase: L1+N+PE                                                                      |
| Plug type                   | GB/T                                                                                       |
| Start mode                  | Standard: Swipe card (Optional: Swipe card + Bluetooth/Swipe card + 4G/Commercial edition) |
| Machine size (W×H×D)        | 250×430×104mm                                                                              |
| IP rating                   | Charging gun head IP66/EV charger IP55                                                     |
| Display mode                | LCD display                                                                                |
| Installation method         | Wall/Pole mount                                                                            |
| Flame retardant rating      | UL94-V0                                                                                    |
| Cable length                | 4m (Customizable)                                                                          |
| Applicable standards        | GB 39752-2024, GB 44263-2024                                                               |
| Operating temperature range | -25°C~+50°C                                                                                |
| Operating humidity range    | ≤90%                                                                                       |
| Operating altitude          | <2000m                                                                                     |

Remarks: Specifications are subject to change without notice.



LESSO

LSAC-3K5/7K

Portable EV Charger    3.5kW / 7kW

LESSO

Portable EV Charger



LSAC3K5-P-C1



LSAC3K5-P-C2



LSAC7K-P-C1

- ⚡

Plug & Play, Flexible Charging
- 🔧

Compact Body, Portable Installation
- 🔋

Auto Full-Charge Cutoff, Battery Lifespan Safeguard
- 🛡️

High-Grade Protection, Outdoor Reliability
- 🌡️

Wide-Temperature Operation, Stable Performance
- 🔥

Flame-Retardant Casing, Safety Upgrade

| Model                       | LSAC3K5-P-C1                           | LSAC3K5-P-C2          | LSAC7K-P-C1 |
|-----------------------------|----------------------------------------|-----------------------|-------------|
| Product configuration       | Home edition                           |                       |             |
| Product color               | Black top cover, white bottom cover    |                       |             |
| Rated power                 | 3.5kW                                  |                       | 7kW         |
| Output current              | 13A                                    |                       | 32A         |
| Rated voltage               | 230Vac                                 |                       |             |
| Input wiring                | Single-phase: L1+ N+PE                 |                       |             |
| Plug type                   | GB/T                                   |                       |             |
| Start mode                  | Plug and play                          |                       |             |
| Machine size (W×H×D)        | 200×90×55mm                            |                       |             |
| IP rating                   | Charging gun head IP66/EV charger IP55 |                       |             |
| Display mode                | LED lights                             | 2.4 "color TFT screen | LED lights  |
| Installation method         | Portable                               |                       |             |
| Flame retardant rating      | UL94-V0                                |                       |             |
| Cable length                | 5m (Customizable)                      |                       |             |
| Applicable standards        | GB/T20234.1-2023,GB/T18487.1-2023      |                       |             |
| Operating temperature range | -25°C~+50°C                            |                       |             |
| Operating humidity range    | ≤90%                                   |                       |             |
| Operating altitude          | <2000m                                 |                       |             |

Remarks: Specifications are subject to change without notice.